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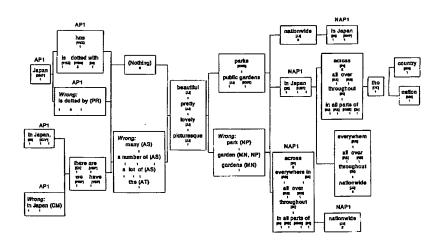
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- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,

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- (54) Title: INTERACTIVE LEARNING SYSTEM BASED ON TEMPLATE-TEMPLATE STRUCTURE
- (54) 発明の名称: テンプレート-テンプレート構造に基づく対話式学習システム



(57) Abstract: A learning system uses the concept of template automaton. "Various expected examples of learners" consisting of "correct" answers and "incorrect" answers are collected and a representative NLP technique such as HCS (heaviest common character string) or LCS (longest common character string) algorithm is used as an effective error diagnosis engine in the language learning system. These examples embedded in the template are used for diagnostic analysis of the answers of the learners. This diagnosis is performed by selecting a path of the highest similarity with the input sentence of the learner among a plenty of candidate paths. Thus, it is possible to automatize and simplify the time-requiring authoring task used in the language-oriented intelligent learning system.

⁾ (57) 要約: 本発明の学習システムにはテンプレート・オートマトンの概念が導入されており、「正しい」回答と | 「誤った」回答からなる多くの「多様な学習者の予想される例」を収集し、効率的なエラー診断エンジンとして | HCS(最重共通文字列)またはLCS(最長共通文字列)アルゴリズム等の代表的なNLP技術を言語学習システムに用い、 | テンプレート内に埋め込まれたこれらの例を学習者の回答の診断解析のために用いる。この診

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LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

一 国際調査報告書

2文字コード及び他の略語については、定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/003838

A. CLASSIFICATION OF SUBJECT MATTER				
Int.Cl ⁷ G09B19/06				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ G09B19/06				
INC.C1 G03B13/00				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Jitsuyo Shinan Koho 1922—1996 Toroku Jitsuyo Shinan Koho 1994—2004 Kokai Jitsuyo Shinan Koho 1971—2004 Jitsuyo Shinan Toroku Koho 1996—2004				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Y	Naoyuki TOKUDA et al., "Templ yoru On-line Chiteki Eisakubu	1-6		
1	System", The Institute of Electronics,			
	Information and Communication Engineers Ronbunshi, J84-D-I, Vol.7, 01 July, 2001 (01.07.01),			
. }	Vol.J-84-D-I, No.7, pages 1089 to 1101,			
}	ISSN 0915-1915			
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	22 November, 2001 (22.11.01), Full text; Figs. 1 to 3			
]	(Family: none)			
E,A	JP 2003-150584 A (NEC Corp.)	,	1-6	
-,	23 May, 2003 (23.05.03),			
	Full text; Figs. 1 to 23 (Family: none)			
]				
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "I" later document published after the international filing date or priori date and not in conflict with the application but cited to understand			emational filing date or priority	
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filing date	cation or patent but published on or after the international	"X" document of particular relevance; the considered novel or cannot be consi	dered to involve an inventive	
		step when the document is taken alone "Y" document of particular relevance; the	claimed invention cannot be	
"O" document re	" document referring to an oral disclosure, use, exhibition or other means combined with one or more other such		step when the document is documents, such combination	
document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family				
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